DSEPOWER®
SHARING WITH SIMPLICITY

NEW RELEASE

DSE8610
AUTO START LOAD SHARE MODULE

The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines.

The DSE8610 monitors the engine and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.

Failures are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.

The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as sophisticated communication and system expansion options.

Using the DSE PC Configuration Suite Software allows easy alteration of the operational sequences, timers and alarms. With all communication ports able to be active at the same time, the DSE8610 is ideal for a wide variety of demanding load share applications.

LOAD SHARE FEATURES INCLUDE:

- **Peak lopping**
- **Sequential set start**
- **Manual voltage/frequency adjustment**
- **ROCOF and vector shift**
- **Generator load demand**
- **Automatic hours run balancing**
- **Mains (Utility) de-coupling**
- **Mains (Utility) de-coupling test mode**
- **Dead bus sensing**
- **Bus failure detection**
- **Direct governor and AVR connections/controls**
- **Volts and frequency matching**
- **kW and kVAr load sharing**

ENVIRONMENTAL TESTING STANDARDS

ELECTRO MAGNETIC COMPATIBILITY
BS EN 61000-6-2
EMC Generic Immunity Standard for the Industrial Environment
BS EN 61000-6-4
EMC Generic Emission Standard for the Industrial Environment

ELECTRICAL SAFETY
BS EN 60950
Safety of Information Technology Equipment, including Electrical Business Equipment

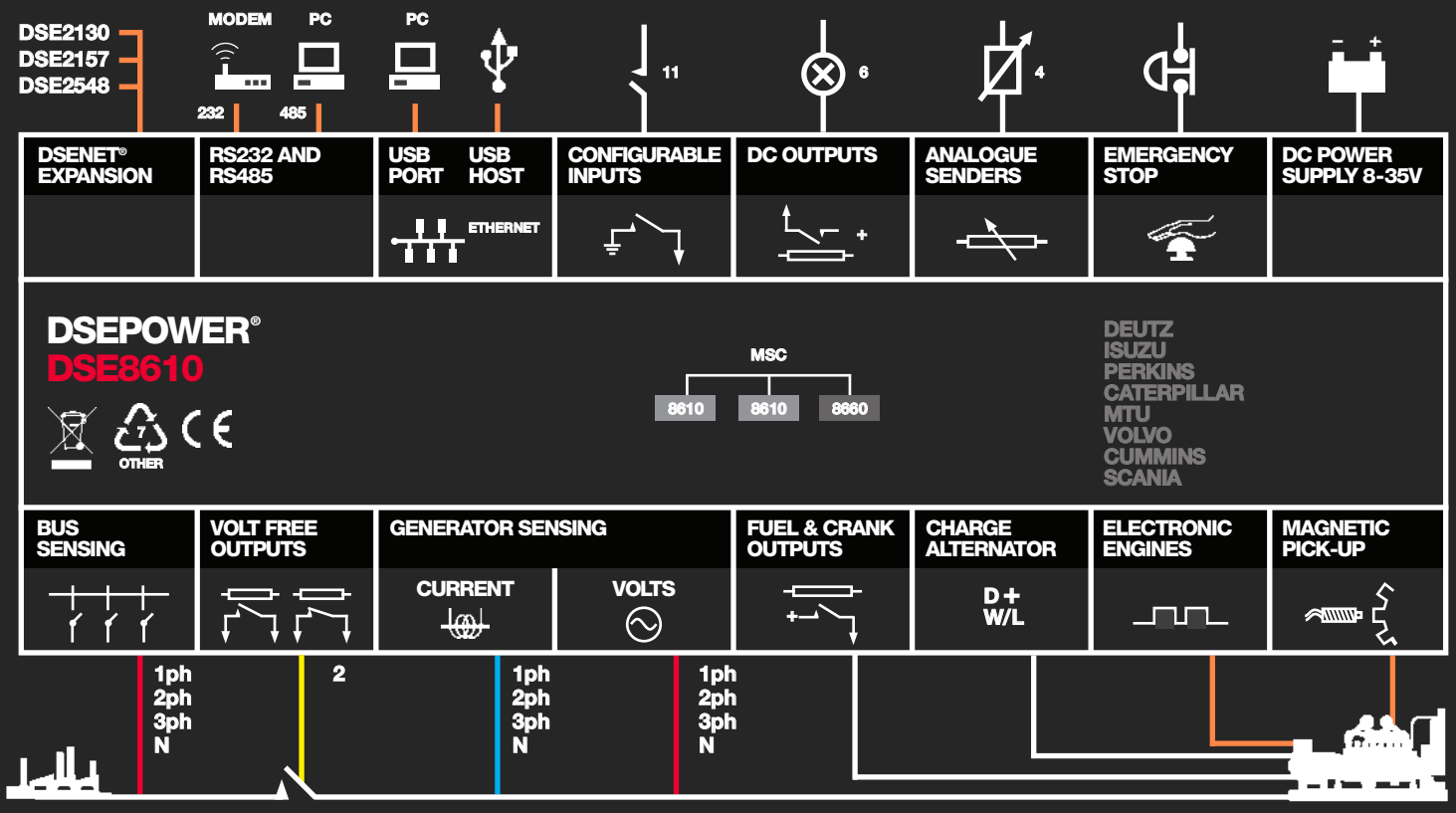
TEMPERATURE
BS EN 60068
Ab/Ae Cold Test -30°C
BS EN 60068-2-2
Bb/Be Dry Heat +70°C

VIBRATION
BS EN 60068-2-6
Ten sweeps in each of three major axes 5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

HUMIDITY
BS EN 60068-2-30
Db Damp Heat Cyclic 20/55°C @ 95% RH 48 Hours
BS EN 60068-2-78
Cab Damp Heat Static 40°C @ 93% RH 48 Hours

SHOCK
BS EN 60068-2-27
Three shocks in each of three major axes 15gn in 11mS

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF LOAD SHARE APPLICATIONS



ISSUE 1

DSEPOWER®
SHARING WITH SIMPLICITY

NEW RELEASE

DSE8610
AUTO START LOAD SHARE CONTROL MODULE

FEATURES
- Configurable inputs (11)
- Configurable outputs (8)
- Voltage measurement
- Built-in governor and AVR control
- kW overload alarms
- Comprehensive electrical protection
- Magnetic pick-up
- Electronic engine capability
- RS232 & RS485 remote communications
- Modbus RTU
- Multi event exercise timer
- Back-lit LCD 4-line text display
- Multiple display languages
- Automatic start/Manual start
- Audible alarm
- Fixed and flexible LED indicators
- Event log (250)
- Engine protection
- Fault condition notification to a designated PC
- Front panel mounting
- Protected front panel programming
- PC configuration
- Configurable alarms and timers
- Configurable start and stop timers
- SMS alert messaging
- Remote monitoring

BENEFITS
- RS232 & RS485 can be used at the same time
- DSENet connection for system expansion
- PLC Functionality
- Auto Voltage Sensing
- Five Step dummy load support
- Five Step Load Shedding support
- High number of inputs and outputs
- Worldwide Language Support
- Configuration Suite PC Software
- Direct USB connection to PC
- Ethernet monitoring*
- USB Host*
- Data Logging & Trending*

* To follow

EXPANSION DEVICES
- DSE2548 LED Expansion Module
- DSE2130 Input Expansion Module
- DSE2157 Output Expansion Module
- DSE124 CAN/MSC Extender

RELATED LITERATURE
DSE8610 Operator Manual
DSE8610 Installation Instructions
DSE8600 PC Configuration Suite Manual

PART NO
057-115
053-069
057-119

SPECIFICATION

DC SUPPLY
8V to 35V continuous

CRANKING DROPOUTS
Able to survive 0V for 50mS, providing supply was at least 10V before dropout and supply recovers to 5V. This is achieved without the need for internal batteries

MAXIMUM OPERATING CURRENT
460mA at 12V. 245mA at 24V

MAXIMUM STANDBY CURRENT
375mA at 12V. 200mA at 24V

ALTERNATOR INPUT RANGE
15V AC (L-N) to 333V AC (L-N) absolute maximum

ALTERNATOR INPUT FREQUENCY
50Hz - 60Hz at rated engine speed (Minimum: 15V AC L-N)

MAGNETIC PICK-UP VOLTAGE RANGE
0.5V to 70V RMS

MAGNETIC INPUT FREQUENCY
1Hz - 10,000 Hz

START RELAY OUTPUT
15A DC at supply voltage

FUEL RELAY OUTPUT
15A DC at supply voltage

AUXILIARY RELAY OUTPUTS
Six outputs 2A DC at supply voltage
Two outputs volt free 8A at 250V AC

CHARGE FAIL/EXCITATION RANGE
0V to 35V

BUILT IN GOVERNOR CONTROL
Fully Isolated
Minimum Load Impedence: 1000Ω
Offset Volts 0V - 5V DC
Range Volts +/- 0 - 5V

BUILT IN AVR CONTROL
Fully Isolated
Minimum Load Impedence: 1000Ω
Gain Volts 0V - 5V DC
Offset Volts +/- 5V DC

DEEP SEA ELECTRONICS PLC UK
Highfield House
Hunmanby Industrial Estate
Hunmanby
YO14 0PH

TELEPHONE
+44 (0) 1723 890099
FACSIMILE
+44 (0) 1723 893303
EMAIL
sales@deepseaplc.com
WEBSITE
www.deepseaplc.com

DEEP SEA ELECTRONICS INC USA
3230 Williams Avenue
Rockford
IL 61101-2668
USA

TELEPHONE
+1 (815) 316 8706
FACSIMILE
+1 (815) 316 8708
EMAIL
sales@deepseausa.com
WEBSITE
www.deepseausa.com

Registered in England & Wales No.01319649
VAT No.316923457

DIMENSIONS
240mm x 172mm x 57mm
9.4” x 6.8” x 2.2”

PANEL CUTOUT
220mm x 160mm
8.7” x 6.3”

ENCLOSURE PROTECTION
(front of module)
IP65 (with optional gasket)
IP42 (without gasket)

055-083/04/10 (01)